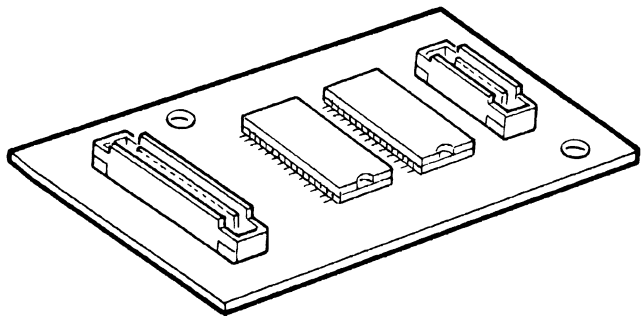
ORDER NO.EMID961618
A5

Service Manual

Wave Expansion Board

SY-EW1

(M),(MC),(XM),(EN),(EH),(EF),(EZ),(EW),(EA),
(EP),(EK),(XL),(XR),(XS),(XD),(XT),(X),(XP)



AREAS

(M): USA
(MC): Canada
(XM): Mexico
(EN): Norway,Sweden, Denmark,Finland
(EH): Holland,Belgium
(EF): France,Italy
(EZ): Germany
(EW): Switzerland
(EA): Austraria
(EP): Spain,Portugal, Greece,Singapore, South Africa
(EK): the United Kingdom
(XL): New Zealand
(XR): Austraria
(XS): Malaysia
(XD): Saudi Arabia,Hong Kong,Kuwait
(XT): Taiwan
(X): Thailand,Indonesia, Iran,U.A.E.,Panama, Argentina,Peru,Brasil
(XP): Philippines

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians.Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

INSTALLATION PROCEDURE

CAUTION

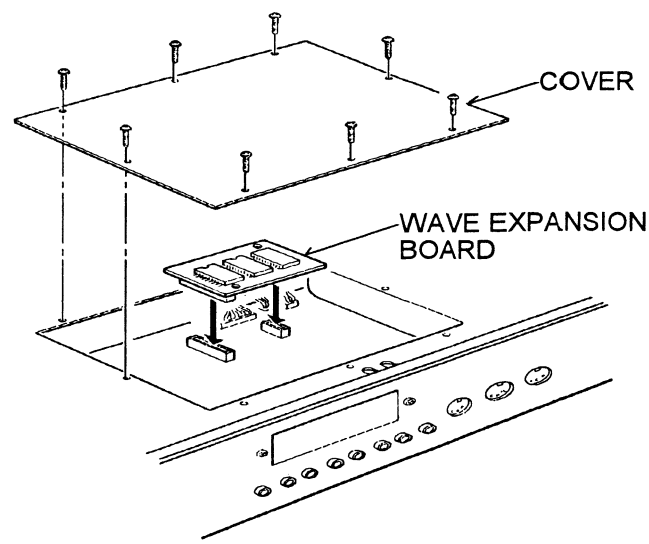
- Installation/removing should be carried out by your dealer.
- Failure to turn off the power to the main unit before installing/removing this board may reesult in damage to the main unit or this board.

Installation procedure

1 Remove the cover from the bottom(synthesizer)/top(synthesizer module)of the main unit.
2 Insert the **WAVE EXPANSION BOARD**,matching it to the MAIN board support and the markings.
- To ensure proper functioning of the board,it must be inserted firmly all the way in.

3 Use the screws removed in step 1 to replace the cover on the bottom(synthesizer)/top(synthesizer module)of the main unit.

If the **WAVE EXPANSION BOARD** is installed by the customer, we cannot accept responsibility for any malfuntion of the **WAVE EXPANSION BOARD** or the main unit.



Technics

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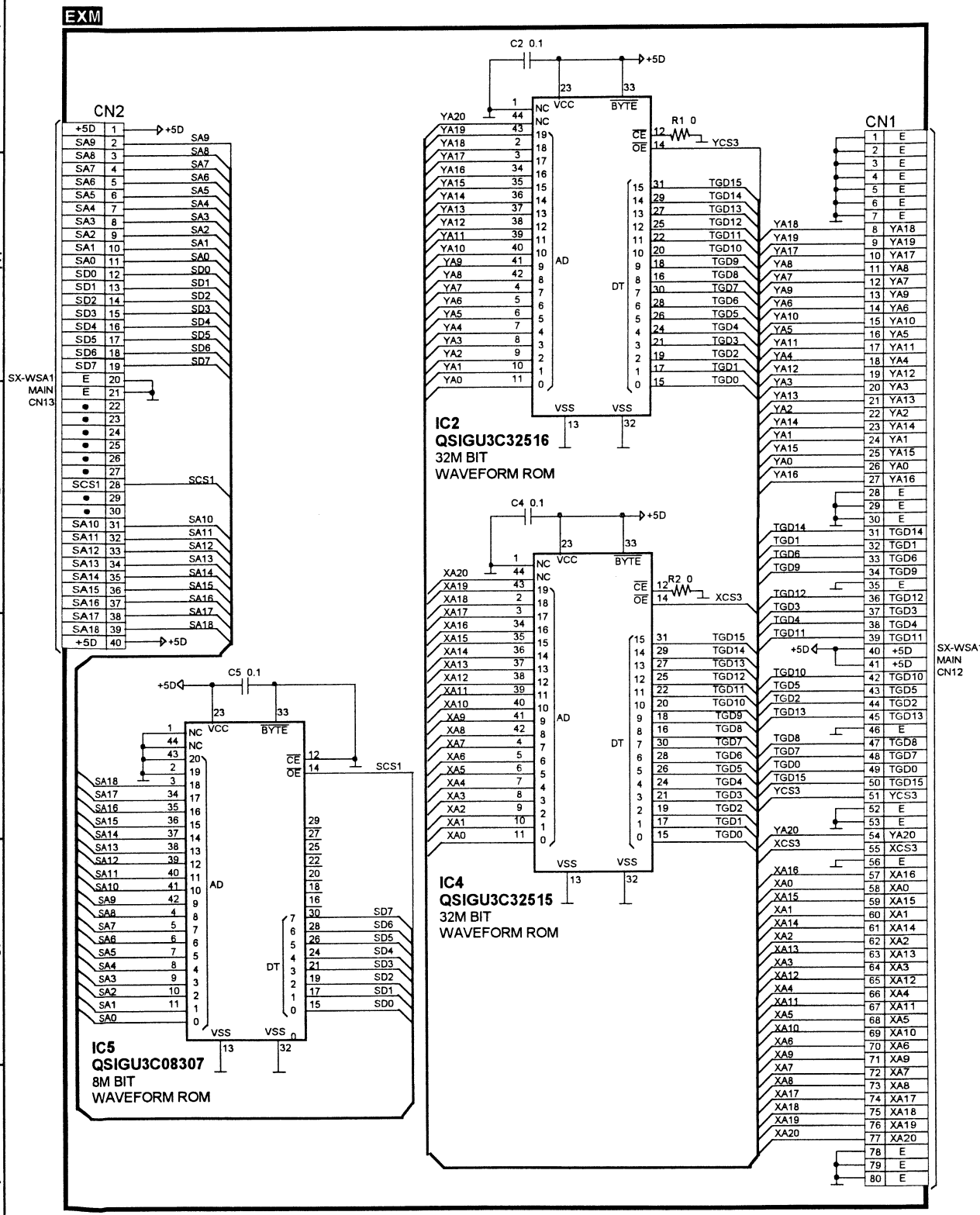
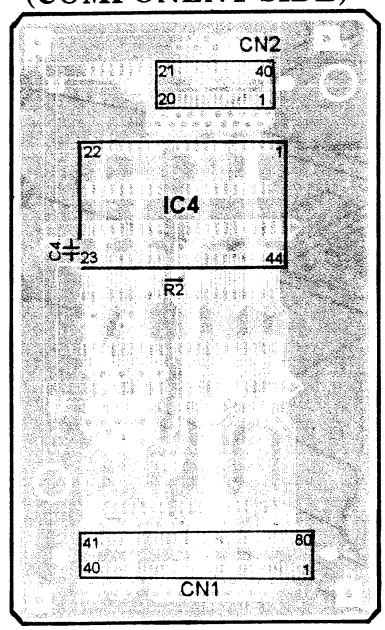
EXM P.C.Diagram

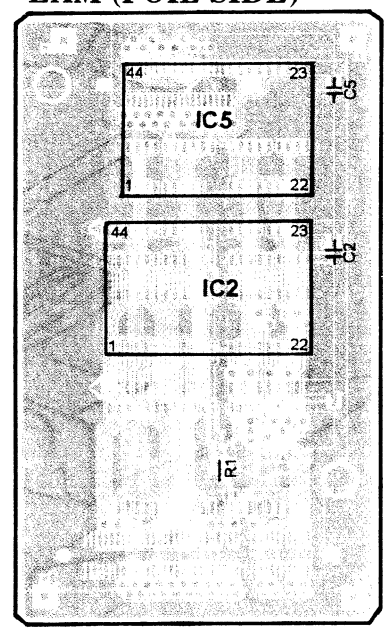


EXM P.C.Board

EXM (SXPG223311)
(COMPONENT SIDE)



EXM (FOIL SIDE)



C B A

1 2 3 4

REPLACEMENT PARTS LIST

Notes:

1. The marking(RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retension period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.
   After the end of this period, the assembly will no longer be available.
2. important safety notice
   Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components,use only manufacturer's specified parts.
3. The "S" mark is service standard parts and may differ from production parts.
4. O mark are new parts.
5. For part No.with area mark,check the area when placing an order.

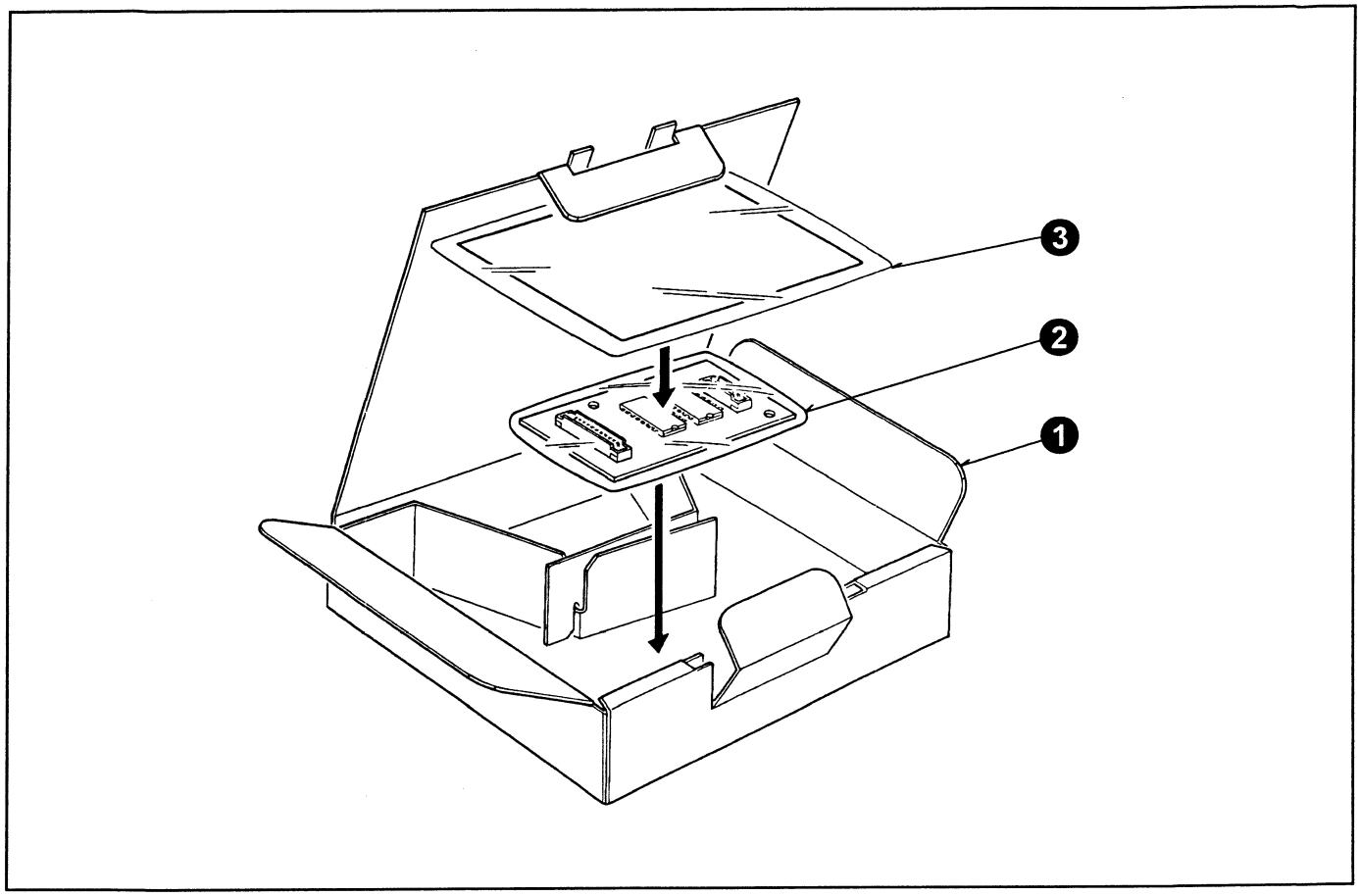
■ PRINTED CIRCUIT BOARD

	RTL	Area	Part No.	Description	P/S
O	RTL		SXPG223311	EXM	1

EXM EXM CIRCUIT

Ref.No.	Part No.	Description	P/S
INTEGRATED CIRCUIT			
O IC2	QSIGU3C32516	32M WAVEFORM ROM	1
O IC4	QSIGU3C32515	32M WAVEFORM ROM	1
O IC5	QSIGU3C08307	8M WAVEFORM ROM	1
RESISTORS			
R1,2	ERJ6GEY0R00V	0Ω	2
CAPACITORS			
C2,4,5	ECUV1H104ZFX	0.1μF	3

PACKING



REPLACEMENT PARTS LIST.....Packing Parts

Notes:

1. The marking(RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retension period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.
   After the end of this period, the assembly will no longer be available.
2. O mark are new parts.
3. Important safety notice
   Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components,use only manufacturer's specified parts.
4. For part No. with area mark,check the area when placing an order.
5. The raw material indication for synthetic resin.
   In order to facilitate classification of parts of synthetic resin manufacture and to promote the recycling of natural resources,a raw material symbol for such parts is indicated in the Ref.No./ Material column.

■PACKING PARTS

	Ref.No.	Part No.	Description	P/S
		PACKING PARTS		
O	1	QPKG002AA	PACKING CASE,PAPER	1
	2 PE	QPFG039AA	POLYETHYLENE BAG	1
		OPERATING INSTRUCTION MANUAL		
O	3	QQFGEW1AA	OPERATING INSTRUCTION MANUAL, EN EK XR EZ EF EA EH	1
O	3	QQFGEW1BA	OPERATING INSTRUCTION MANUAL, M	1

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